Newspaper Item.

MIGRATION OF SONG
BIRDS IS DELAYED
BY KILLING FROSTS

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Bird Calendar Shows Effect
of Cold Weather on Migration

Bulletin No. 2 - 18th Year

Attention was called in the first bulletin, issued on March 20, to the fact that the movements of birds are influenced by the weather only as this affects their natural supplies of food. The acceleration of migrants from the south, as noticed this year in the early records of our Robins, Bluebirds and Grackles, was checked by the cold phase which set in on April 11 at the very moment when the early fruits were everywhere breaking into bloom on the Cleveland plain. Contrary to the predictions of the supposedly weather-wise, this cold period culminated in what is known in Ohio as a "black frost" on April 21, when the temperature, according to reports, fell to 20 degrees in the middle and southern sections of the State, and the experience of last year was repeated. Those who urged that Ohio fruits would be safe because destructive frosts are never known to occur in two secessive years, will have to revise their theories. The effect of this temperature on fruits was to destroy every open blossom and most fruit-buds, while the migratory movements of all birds which depend mainly upon insects for their food was sensibly slowed down, and there may have been considerable remigration, or a backflow, in certain places.

Cleveland was visited by Jack Frost on at least five nights, on April 20, 21, and 22, and on April 27 and 28; that of the 21st was fatal to all sweet cherries in the more exposed situations, but subjected most other fruits to a thinning process which, owing to the abundance of prospective bloom, they were well able to stand. As has often happened before the fruit crop of northern Ohio was saved by the stabilizing effect of Lake Erie, along the borders of which the temperature probably at not time fell much below 28 degrees. It will be remembered that last year fruits all over the State were mostly ruined by a frost on March 28, when 20 degrees was recorded at Cleveland, and the season was abnormally advanced; what managed to escape was caught mostly in the freezing weather of April 10 and 17.

26. Junco; January 10, Lake View, Mrs. Terrell; March 13, Noble Rd., Mrs. Dr. Ruedy; March 223, East Cleveland, Bird Class.
27. Catbird; March 19, Cleveland Heights (?) Professor Finfrock. May 3, Cleveland Heights, Miss Calfee.
28. Towhee; March 31, Cleveland Heights, Professor Finfrock; April 2, Shaker Lakes, Donald Hulme; April 7, Noble Rd. Mrs. Ruedy.
29. Field Sparrow; March 22, Lake View, Donald Hulme; March 27, Noble Rd., Mrs. Dr. Ruedy.
30. Brown Thrush; Mar. 22, 84th St. Mrs. F.W.Blake; April 13, Noble Rd., Mrs. Dr. Ruedy.
31. Redwing Blackbird; Mar. 24, South Euclid, Mr. Kurt Zorn; March 28, Lake View; Mrs. Terrell; April 4, Noble Rd., Mrs. Dr. Ruedy.

32. Woodcock; March 26, Stop 35, West Dover (several) Mr. Haas. May 7, Wade Park.
33. Kingbird; March 26, Stop 35, West Dover, Mr. Haas
34. Phoebe; March 26, Noble Rd., Mrs. Dr. Ruedy; March 28, Lake View, Donald Hulme; April 6, Euclid Creek (several). Bird Class
35. Golden Crowned Kinglet; March 26, Noble Rd., Mrs. Dr. Ruedy; April 2, Shaker Lakes, Donald Hulme; April 13, Gates Mill, Bird Class.
36. Mourning Dove; March 27, Mentor, Miss Bradway; March 28, Lake View, Donald Hulme; April 4, Noble Rd., Mrs. Dr. Ruedy.
37. Cowbird; March 28, Noble Rd., Mrs. Dr. Ruedy; April 3, Wade Park, Professor Hulme; April 10, Cleveland Heights, Professor Finfrock.
38. Nighthawk; March 14, Noble Rd., Mrs. Dr. Ruedy; March 29, Cleveland Heights, Professor Finfrock.
39. Cedarbird; March 29, E. 115th St (one) Mrs. C.F.Dexter; April 6, Shaker Lakes (2) Professor Hulme.
40. Scaup Duck; April 2, Shaker Lakes (8 males and 1 female) Prof. Hulme
41. Turkey Buzzard; April 2, Cleveland Heights, Professor Finfrock.
42. Hermit Thrush; April 2, Shaker Lakes, Donald Hulme; April 7, Noble Rd., Mrs. Dr. Ruedy; April 13, Gates Mill, Bird Class
43. Kingfisher; April 2, Shaker Lakes, Donald Hulme; April 6, Euclid Gorge, Bird Class
44. Carolina Wren; April 2, Euclid Heights;
45. Vesper Sparrow; April 3, Wade Park, Professor Hulme; April 4, Noble Rd., Mrs. Dr. Ruedy.
46. Bob White; April 4, Noble Rd., Mrs. Dr. Ruedy.
47. Loggerhead Shrike; April 5, Wade Park, Professor Hulme.
48. Marsh Hawk; April 7, Noble Rd., Mrs. Dr. Ruedy.
49. Purple Finch; April 8, Nela Park, Mr. C.F.Dexter.
50. Screech Owl; April 8, Noble Rd.
51. Ruby-crowned Kinglet; April 2, Ambler Park, Miss Wilcox; April 16, East Cleveland, Mr. C.F.Dexter.
52. White-throated Sparrow; April 8, Ambler Park, Miss Wilcox; May 4, Bird Class.
53. Wilson's Thrush; April 8, Shaker Lakes, Professor Hulme.
54. Purple Martin; April 8, Shaker Lakes, (two), Professor Hulme; April 10, Noble Rd., (one) and 11, (several).
55. Chipping Sparrow; April 8, Noble Rd., Mrs. Dr. Ruedy; April 13, Gates Mill, Bird Class; April 19, Shaker Lakes, Professor Hulme.
56. Wood Duck; April 9, Stop 42, Lehr Rd., Mr. Haas.
57. House Wren; April 10, Noble Rd., Mrs. Ruedy.
58. Yellow-bellied Sapsucker; April 13, Noble Rd., Mrs. Dr. Ruedy.
59. Red-cockaded [sic; possibly Red-bellied (?)] Woodpecker; April 13, Gates Mill, Bird Class; April 22, Kirtland, Messers. Bailey and Finfrock.
60. Gray-cheeked Thrush; April 15, Lake View, Professor Hulme.
61. Myrtle Warbler; April 15, Wade Park (two), Professor Hulme; April 20, Wade Park (two pairs) Miss Raines.
62. Goldfinch; April 16, Lake View Mrs. Terrell.
63. Red Poll; April 17, Kee Mar Park; Mrs. J.Frank Pool
64. Wood Thrush; April 19, Shaker Lakes, Professor Hulme; April 23, Cleveland Heights, Professor Hyde.
65. Barn Swallow; April 19, Shaker Lakes, Professor Hulme.
66. Bank Swallow; April 22, Kirtland, Messers Bailey and Finfrock.
67. Spotted Sandpiper; April 22, Kirtland, Messers Bailey and Finfrock

68. Baltimore Oriole; April 23, Cleveland Heights, Miss Calfee; May 12, East 84th St. Mrs. F.W.Blake.
69. White-bellied Martin; April 23, Cleveland Hts., Prof. Finfrock.
70. Caerulean Warbler; April 27, Nine Mile Creek (female) Bird Class
71. White-crowned Sparrow; April 27, Nine Mile Creek Bird Class (several).
72. White Eyed Vireo; April 30, Cleveland Heights, Professor Finfrock.
73. Yellow Warbler; May 2, Noble Rd., Mrs. Dr. Ruedy. Cornell Rd., Donald Hulme.
74. Red-breasted Nuthatch; May 4, Ambler Park, Bird Class.
75. Wood Pewee; May 4, Ambler Park, Bird Class.
76. Warbling Vireo; May 3, Noble Rd., Mrs. Dr. Ruedy.
77. Chimney Swift; May 3, Noble Rd., Mrs. Dr. Ruedy.
78. Northern Yellow Throat; May 4, Noble Rd., Mrs. Dr. Ruedy.

Wed. May 10, 1922.